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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|-----------------------|---------------------|------------------|
| 09/915,122 | 07/25/2001 | Kevin Kwong-Tai Chung | AI-TECH-23 | 5758 |

110 7590 06/04/2003

DANN, DORFMAN, HERRELL & SKILLMAN
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PHILADELPHIA, PA 19103-2307

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| EXAMINER |
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TRAN, KHOA H

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| ART UNIT | PAPER NUMBER |
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3634

DATE MAILED: 06/04/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application N .

09/915,122

Applicant(s)

CHUNG, KEVIN KWONG-TAI

Examiner

Khoa Tran

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 31 January 2003.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-36 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-36 is/are rejected.
- 7) ☐ Claim(s) 36 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

Claim R jections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kreckel et al. in view Delgado et al. and Plamthottam et al. ('191). Kreckel et al. disclose a reusable carrier structure comprising a substrate carrier base/article (14) having adhesives (12) laminate disposed on a surface of the carrier base (14). The laminate adhesive comprises a transparent adhesive base (24), a first adhesive layer (22) disposed on a first surface of the adhesive base, see Figure 1, for removably connecting the carrier base (14) and the adhesive base (24) and a second adhesive layer (26) disposed on a second surface of the adhesive base (24) for providing a tacky carrier surface. The lower adhesive layer (12) to the substrate carrier has a different release adhesion than the top adhesive layer (16), wherein the top adhesive layer has a opaque cover material (34). See column 10, lines 18-21. Kreckel et al. do not teach the composition of the adhesive layer and how they are formed. However, Delgado et al. teach the composition of an adhesive layer that cross-linkable by heat or radiation, see column 7, lines 13-14. and the composition of the adhesive is decreased adhesive transfer for increased peel adhesion, see column 10, lines 56-28. It would have been obvious to one of ordinary skill in the art at the time of the invention was made to provide the reusable adhesive layer of Kreckel et al. with the provision of adhesive layer

as taught by Delgado et al. in order to decrease adhesive transfer for increased peel adhesion during the phase of separation. Plamthottam et al. ('191) teach heat or radiation curing of cross-linking adhesive between high shear adhesion failure temperature and good peel adhesion temperature. It would have been obvious to one of ordinary skill in the art at the time of the invention was made to provide the modified adhesive layer of Kreckel with the process of heat or radiation curing as taught by Plamthottam et al. ('191) in order to determine the good peel adhesion test that can be used for structural bonding. With respect to claims 6-8, 15-17, and 25-27, it would have been an obvious matter of engineering design choice as determined through routine experimentation and optimization for one of ordinary skill in the art to routinely dimension the percentage of the adhesive strength lost to be 70% after the cross-linking process, i.e., exposed to heat or radiation, and to routinely dimension the resistance to deformation that is less than 300 degree Celsius as taught by Plamthottam et al ('191) for a particular application thus producing no new and unexpected results.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Loncar, Jr. et al., Murakami et al., Lyden, Chung ('253), ('420), ('650), ('859), ('289), Petit et al., and Patnide et al. are cited to show devices having similar configurations of design.

Allowable Subject Matter

Claim 36 would be allowable if rewritten to include all of the limitations of the base claim and any intervening claims.

Claim 36 is allowed because there is no prior art of record that teaches or suggest the carrier structure includes a rectangular frame having a ledge providing the support member, and wherein the cover includes first and second covers disposed on opposite ends of the rectangular frame, wherein the first and second covers and the rectangular frame enclose the carrier base.

Response to Amendment

Applicant's arguments with respect to claims 1-35 have been considered but are moot in view of the new grounds of rejection.

The new grounds of rejection were necessitated by applicant's amendment, e.g., "for decreasing the adhesion thereof", see claim 1, line 10, claim 10, lines 14-15, claim 20 , lines 10-11, and "exhibit a reduction of adhesiveness", see claim 30, line 12 and claim 35, line 11.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any

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extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Khoa Tran whose telephone number is (703) 306-3437. The examiner can normally be reached on Monday through Thursday from 8:30 A.M. to 7:00 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Daniel P. Stodola, can be reached on (703) 308-2686. The fax phone number for this Group is (703) 305-3597 or (703) 305-3598.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-2168.

If the applicant is submitted by facsimile transmission, applicant is hereby reminded that the original should be retained as evidence of authenticity (37 CFR 1.4 and M.P.E.P. 502.02). In general, most responses and/or amendments not requiring a fee, as well as those requiring a fee but charging such fee to a deposit account, can be submitted by facsimile transmission. Responses requiring a fee which applicant is paying by check **should not be** submitting by facsimile transmission separately from the check. Responses submitted by facsimile transmission should include a Certificate of Transmission (M.P.E.P 512). The following is an example of the format the certification might take:

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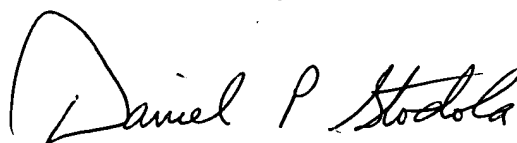
Fax No. _____ On _____
(Date)

Type or printed name of person signing this certificate:

(Signature)

Furthermore, please do not separately mail the original or another copy unless required by the Patent and Trademark Office. Submission of the original response or a follow-up copy of the response after your response has been transmitted by facsimile will only cause further unnecessary delays in the processing of your application; duplicate responses where fees are charged to a deposit account may result in those fees being charged twice.

Khoa Tran
June 01, 2003



DANIEL P. STODOLA
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 3600